MOBILITY 2.0.0 RELEASE NOTES
October 2008

TOPICS

1. General Mobility Application Modifications

The look of Mobility has changed due to an upgrade in our application development software. You will notice a more 'modern' look, with lighter colored backgrounds on the screens and colored grouping labels.

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Traffic Studies
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'Lanes Studied' has been added to the Traffic Study Results grid on the Traffic Study Station screen.

The Traffic Study Results screen has been modified to accommodate new functionality in the 'Percentages or Counts' (previously 'Percentages') section and the new 'Truck Route' section.

Percentages or Counts:

A drop down box, labeled 'Numbers are:', allows the user to select whether Truck, Bus and RV data will be entered as a percent of the total ADT or an actual count. Below the drop down, users can enter data in the left column. As data is entered, the right column will display data as the type that was not selected. For example, if the user is entering data as a *percent* (in the left column), Mobility will calculate and display the data as a *count* in the right column.

The 'Total Truck', 'Bus' and 'RV' fields can be optionally populated as in previous versions of Mobility, using percents or counts. The 'Truck-Single', 'Truck-Double' and 'Truck-Train' fields are available to add detail for 'Total Truck'. The numbers in Single, Double and Train must add up to the 'Total Truck' number.

Truck Route:

This new section consists of previously existing fields 'Truck Route Class', 'Truck Route Season' and 'Gross Annual Tons', as well as a button that will calculate the Gross Annual Tons (G.A.T.) based on data found in 'Truck-Single', 'Truck-Double' and 'Truck-Train'. When the 'Gross Annual Tons' is populated, either through manual entry or calculating, a Truck Route Classification recommendation is displayed. The Truck Route Classification recommendation is based on the Washington State defined values of: Singles = 7 tons, Doubles = 27 tons, Trains = 42 tons.

When the Roadlog is updated from the Traffic Study Results screen by checking 'Update Roadlog', the 'Choose Roadlog Segments' dialog box has an option to 'Check All', alleviating the need to check each Roadlog segment individually. There is also a check box for updating the Roadlog Truck Route Classification. This check box is disabled if no Truck Route Classification has been specified in the traffic study result. Updating the Truck Route Classification in Roadlog from Traffic Study Results will trigger the Audit Trail Dialog.

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RoadLog
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Traffic Tab:

The changes made to Traffic Study Results allow for more functionality in RoadLog. At the top of the Traffic form, there are 2 radio buttons. If a roadlog segment has been updated from Traffic Studies, the 'Traffic Study Result' radio button is selected and the study location and date are displayed. Otherwise, the 'Manual Entry' radio button is selected. This selection can be changed from 'Traffic Study Result' to 'Manual Entry' by the user. However, if the data in RoadLog has come from a traffic study, and the user selects 'Manual Entry', the link between the traffic study and RoadLog is severed.

There is a new section, labeled 'Percentages or Counts', which functions as it does in Traffic Study Results, with the drop down for 'Actual Counts' or 'Percentages' and the display of the data (see above).

New fields, 'Speed Limit Ordinance #' and 'Speed Limit Ordinance Date' have been added.

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Combine Segment Routine:
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The combine segment instructions have been modified to better define the process. Also, additional comparison values have been added.

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Edit Road:
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Edit road will now default to the entire road, i.e., the 'From' section will be the smallest milepost on the road, and the 'To' section will be the largest milepost on the road in the 'Existing' section.

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Maintenance Batch Update:
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This new and powerful function can be found in the 'Tools' menu. Its purpose is to allow users to update maintenance data for many inventories with a minimal amount of data entry.

1. Select the desired inventory to update.
2. The resulting list will display all roads that contain the selected inventory.
3. Click on each road you want to update, or click on 'Check All' to select all roads.
4. Specify the milepost range: By default, the smallest Roadlog milepost and largest Roadlog milepost are shown for each road. These mileposts can be manually changed by clicking on the 'complete' button, which will then allow the option to modify the mileposts. The road mileage can be made shorter or longer.
5. Select a Maintenance Date by using the drop down calendar.
6. Select a Maintenance Code. Note: if a Maintenance Code has been previously set up as 'Code Represents an Inspection' in the routine for Maintenance Activity Numbers (found in the Admin menu), a check box will display, giving the opportunity to update the last inspection date for the selected inventories.
7. Select a Reason (optional), and enter data in the 'By' and 'Comment' fields (also optional).
8. Click Continue.
9. A report showing the count of the inventory on each road will display.
10. Click on 'Yes' or 'No' to continue or abort the update, respectively.

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Reference Points:
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When creating a new reference point, the road number field is populated with the road number of the selected road.

A marker will display on the reference point diagram to indicate the reference point. This is particularly useful when the reference point does not have a 'direction from' or a 'direction to', assisting the user in visualizing the layout of the road.

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Milepost Calculator:
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Mobility's milepost calculator has been upgraded so that it will 'post back' the calculated milepost. To use the milepost calculator:

For Inventories:

1. Open any inventory and click in a milepost field.
2. Press the F8 key.
3. Enter a Reference Milepost, Road Direction, and Offset and select Feet or Miles for the

Offset.
4. Click Calculate.
5. To 'post' (write) the Resulting Milepost to the Inventory record, click Accept.

For Reference Points or to use the Milepost Calculator for informational purposes:

1. Position the mouse on a Reference Point in the Feature List and right click.
2. Select Milepost Calculator from the list.
3. Enter a Reference Milepost, Road Direction, and Offset and select Feet or Miles for the Offset.
4. Click Calculate.

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Surface Conditions:
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'Comments' and 'Rater' have been added to Surface Conditions. These fields were also added to Surface Condition-related reports. They are included in the VisRate application and will be uploaded to Mobility when VisRate is used.

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Rehabilitations:
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The resulting pavement type has been added to the display of existing Rehabilitations in the routine where Rehabilitation definitions are handled (Admin/Pavement Rehabilitations).

2. Reports

Road numbers have been re-formatted to display as 5 digits in all canned and custom reports.

Canned:

CLAS Collision Details – Found in Reports/Inventories/CLAS - displays all available details for each collision. Users can select specific roads and/or a specific date range if desired.

Inventory Counts – Found in Reports/Inventories – displays counts of all inventories, including road mileage – either in selected maintenance districts or maintenance groups or for the entire county. (Can also be found in MMS/Maintenance Management Console/Planning Reports).

PSC Weighted Average Summary – Found in Reports/Pavement Management - This report is designed to give a weighted average of pavement surface conditions (PSC) by federal function class or pavement type for a given year. This report does not forecast pavement conditions using the pavement life curves, like the Network Condition Report, but instead reports a weighted average from existing surface condition records. Only the surface condition records with a year matching the maximum year (the maximum year less than or equal to the given year) of surface condition records that intersect a roadlog segment will be used to calculate the average. We have also incorporated a bar graph in this report to give an alternative visual representation of how individual federal function classes compare to each other, or, if you selected the pavement type option, how individual pavement types compare to each other.

CLAS Collision Summary – Added Accident Number

Custom:

qTrafficStudyHistory – selects records where Traffic Study Results or Traffic Study Station have been deleted. Modified qTrafficStudy so deleted records are NOT selected.

qCLASCollision - added [Direction From] field

qCrashes - added FFC

3. **Maintenance Management**:

Plan Activities Tab:

'Incomplete Plans' are indicated in the Plan list by an asterisk preceding the Plan name. There is also a clickable link which will display the definition of an 'Incomplete Plan'.

Once a Plan is selected, the next form that opens will display 3 additional tabs. As each of these tabs is opened, the Activity Definition and Area remain at the top of the form. Also, the Cost Estimate field will continue to be displayed.

Production Levels:

This is the tab where Inventory Amount, Effort Level (or Frequency and Conversion Factor), and Average Daily Production are entered. As this data is entered, the Work Quantity and Crew Days is calculated and displayed.

Resources:

Labor, Equipment and Materials are entered on this tab. As data is entered, Labor Days (on the Production Levels tab) calculates.

Work and Labor Days Distribution:

This tab contains a calendar for entering Hours per Day, % of Work, and Days Available for each month. As these values are entered, Labor days, Total Labor Days, and Average Work Day Hours are calculated and displayed. Cost Estimates (at the bottom of the form) will begin to display if Resources have been added. For each Activity Plan, users must populate the percent of work to be done each month. The Hours per Day and Days Available are populated with initial values that users can change from the Global Settings menu option.

Planning Reports Tab:

Resource Allocation name changed to Planned Resources.

Incomplete Activity Plans – Lists Activity Plans that are missing data from one or more fields, which would result in invalid or incomplete reports.

Work Program & Budget Worksheet – Creates a Work Program and Budget Worksheet which will directly export to an Excel file.

Inventory Counts – displays counts (and mileage where appropriate) of all inventories – either in selected maintenance districts or maintenance groups or for the entire county as a summary. (Can also be found in Reports/Inventories).

As always, please don't hesitate to call the Mobility Support Team at (360) 664-3299 x243 or email us at mobsupport@crab.wa.gov if you have questions or concerns. We welcome your feedback, also! Thank you for reading the Release Notes!